

WHAT IS CLAIMED:

1. A micro-compressor, comprising:
a sheet member; and
a compression means, which is disposed on said sheet member; and,
said micro-compressor characterized in that the working fluid beneath said sheet member is compressed and then sent to the upper side of said sheet member.
2. The micro-compressor according to claim 1, wherein plurality of said compression means are disposed on said sheet member.
3. The micro-compressor according to claim 2, wherein, said compression means are arranged symmetrically.
4. The micro-compressor according to claim 1, 2, or 3, wherein, said compression means comprising:
a pressure chamber, which is located at the inner part of said second compression means;
a vibrating plate, which comprises the outer wall of said pressure chamber and can be deformed to change the volume of said pressure chamber;
an inlet valve, which can be opened and closed for the indraft of working fluid into the pressure chamber; and
a outlet valve, which can be opened and closed for the exhaustion of working fluid out of the pressure chamber.
5. The micro-compressor according to claim 4, wherein, said vibrating plate operated by symmetrically arranged a certain number of piezo-actuators; and said inlet valve and said outlet valve operated by piezo-actuators which are disposed on said inlet valve and said outlet valve respectively.

6. The micro-compressor according to claim 5, wherein, said piezo-actuators are formed through inserting insulator between a pair of piezo-electric element and then joining said piezo-electric element and insulator together.